	Application No.	Applicant(s)
Notice of Allowability	09/640,405	CRAWFORD ET AL.
	Examiner	Art Unit
	Nelson D. Hernandez	2612
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT I of the Office or upon petition by the applicant. See 37 CFR 1.31	pears on the cover sheet with the S (OR REMAINS) CLOSED in this a so other appropriate communicating RIGHTS. This application is subject 13 and MPEP 1308.	correspondence address application. If not included on will be mailed in due course. THIS
1. This communication is responsive to <u>23 December 2004</u> .	•	
2. The allowed claim(s) is/are 1-9,14 and 16-28.		
3. \boxtimes The drawings filed on <u>17 August 2000</u> are accepted by th	e Examiner.	,
 4. ☐ Acknowledgment is made of a claim for foreign priority of a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have a copies of the priority documents have a copies of the priority documents have a copies of the certified copies of the priority documents have a copies a copies of the priority documents have a copies a copies of the priority documents have a copies a copies	ve been received. ve been received in Application No.	· · · · · · · · · · · · · · · · · · ·
Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	" of this communication to file a rep MENT of this application.	ly complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be subr INFORMAL PATENT APPLICATION (PTO-152) which give	mitted. Note the attached EXAMINE ves reason(s) why the oath or decla	R'S AMENDMENT or NOTICE OF tration is deficient.
6. CORRECTED DRAWINGS (as "replacement sheets") mu (a) including changes required by the Notice of Draftsper 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in	rson's Patent Drawing Review (PTG r's Amendment / Comment or in the 1.84(c)) should be written on the dray	Office action of
7. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT	osit of BIOLOGICAL MATERIAL FOR THE DEPOSIT OF BIOLOGI	must be submitted. Note the CAL MATERIAL.
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. Interview Summa Paper No./Mail D 708), 7. Examiner's Amen	Pate

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DETAILED ACTION

Allowable Subject Matter

- 1. Claims 1-9, 14 and 16-28 are allowed.
- 2. The following is a statement of reasons for the indication of allowable subject matter:

Regarding claims 1 and 3, the main reason for indication of allowable subject matter is because the prior art fails to teach or reasonably suggest producing a modified video signal consisting of a continuous sequence of the first and second fields or frames to selectively applying said modified video signal to a video display apparatus whereby to cause said apparatus to display said captured optical image according to the first or second fields or frames contained in said modified signal.

Takahashi, 2002/0071044 A1 discloses a method of producing a video recording with improved dynamic range comprising: providing a video sensor (Fig. 1: 103) capable of converting an optical image into a video signal comprising a sequence of video fields or frames (See fig. 3) representing the optical image (Page 2, ¶ 0045); operating said video sensor to capture an optical image and simultaneously varying the amount of light (Page 6, ¶ 0072) received by said video sensor during the time frame of each video field or frame so that the resulting video signal representing said captured optical image will constitute a sequence of video fields or frames comprising at least first and second fields or frames representing substantially different exposure values of the captured image occurring repetitively in said sequence (Page 3, ¶ 0050; page 6, ¶ 0072; see also fig. 12 for field memories). However, Takahashi fails to teach or reasonably suggest

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producing a modified video signal consisting of a continuous sequence of the first and second fields or frames to selectively applying said modified video signal to a video display apparatus whereby to cause said apparatus to display said captured optical image according to the first or second fields or frames contained in said modified signal.

Regarding claim 17, the main reason for indication of allowable subject matter is because the prior art fails to teach or reasonably suggest processing the video signal output to provide a first modified signal that defines a continuous sequence of first fields or frames, and a second modified signal that defines a continuous sequence of second fields or frames and utilizing said first and second modified video signals to produce separate displays of said captured optical image according to the exposures represented respectively by said first and second fields or frames.

Takahashi, 2002/0071044 A1 discloses a method of producing a video recording with improved dynamic range comprising: providing a video sensor (Fig. 1: 103) capable of converting an optical image into a video signal comprising a sequence of video fields or frames (See fig. 3) representing the optical image (Page 2, ¶ 0045); operating said video sensor to capture an optical image and simultaneously varying the amount of light (Page 6, ¶ 0072) received by said video sensor during the time frame of each video field or frame so that the resulting video signal representing said captured optical image will constitute a sequence of video fields or frames comprising at least first and second fields or frames representing substantially different exposure values of the captured image occurring repetitively in said sequence (Page 3, ¶ 0050; page 6, ¶ 0072; see also fig. 12 for field memories). However, Takahashi fails to teach or reasonably suggest

processing the video signal output to provide a first modified signal that defines a continuous sequence of first fields or frames, and a second modified signal that defines a continuous sequence of second fields or frames and utilizing said first and second modified video signals to produce separate displays of said captured optical image according to the exposures represented respectively by said first and second fields or frames.

Regarding claims 4, 7, 9, 14, 18, 19, 22, 25, 26 and 28, the main reason for indication of allowable subject matter is because the prior art fails to teach or reasonably suggest deriving from the resulting video signal a modified video signal comprising a continuous sequence of only the first video field or frames or a continuous sequences of only the second video field or frames.

Takahashi, 2002/0071044 A1 discloses a method of producing a video recording with improved dynamic range comprising: providing a video sensor (Fig. 1: 103) capable of converting an optical image into a video signal comprising a sequence of video fields or frames (See fig. 3) representing the optical image (Page 2, ¶ 0045); operating said video sensor to capture an optical image and simultaneously varying the amount of light (Page 6, ¶ 0072) received by said video sensor during the time frame of each video field or frame so that the resulting video signal representing said captured optical image will constitute a sequence of video fields or frames comprising at least first and second fields or frames representing substantially different exposure values of the captured image occurring repetitively in said sequence (Page 3, ¶ 0050; page 6, ¶ 0072; see also fig. 12 for field memories).

Haga, JP 03179889 A teaches an automatic frame/field switching unit for imaging systems (Fig. 1), wherein the switching unit comprises first and second memories (Fig. 1: 11 and 12) for storing the first and second received fields or frames from an imaging system output and a selector (Fig. 1: 14) that when a detected signal of the absence of blur is received from the motion detector (Fig. 1: 13), said selector outputs the digital video signal in which the pixel data stored in the first and second field memories are synthesized, and when a detected signal of the existence of blur from the motion detector, the selector selects the pixel data of either the first field memory or the second field memory and outputs the digital video signal in which the lines of the pixel data are synthesized so that they may be displayed twice, providing images without blur (Translation, page 4, lines 6-20).

However, the teachings of Takahashi and Haga, either along or in combination fails to teach or reasonably suggest deriving from the resulting video signal a modified video signal comprising a continuous sequence of only said first video field or frames or a continuous sequences of only the second video field or frames.

Contact

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nelson D. Hernandez whose telephone number is (571) 272-7311. The examiner can normally be reached on 8:00 A.M. to 5:30 P.M..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wendy R. Garber can be reached on (571) 272-7308. The fax phone

number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Nelson D. Hernandez Examiner Art Unit 2612

NDHH May 13, 2005

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